da Vinci®

RADICAL CYSTECTOMY

Solutions for minimally invasive urologic surgery

INTUITIVE SURGICAL®

The *da Vinci*® Surgical System

- High-definition 3D vision
- *EndoWrist*® instrumentation
- *Intuitive*® motion

da Vinci® RADICAL CYSTECTOMY

Maintains the oncologic principles of open radical cystectomy while also providing the potential benefits of a minimally invasive approach.

The unsurpassed visualization, precision, dexterity and control provided by the *da Vinci* System offers the potential for:

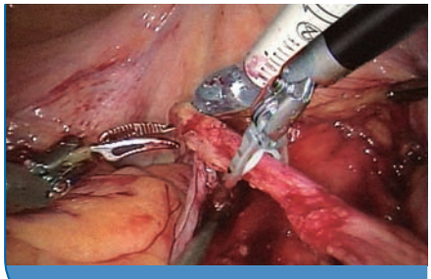
- Favorable operative, pathologic and short-term oncologic outcomes[1,2,3]
- Meticulous dissection for standard and/or extended lymphadenectomy[1,2,3]
- Complete and anatomic bladder removal with minimal blood loss[4]
- Precise suturing of the DVC and creation of a watertight urethra-neobladder anastomosis[3]
- Enhanced ability to preserve the neurovascular bundles in appropriately selected patients[5]
- More rapid return of bowel function[1,3]

POTENTIAL PATIENT BENEFITS INCLUDE:

- Significantly less pain medication [1,6]
- Less blood loss[1,7]
- Fewer transfusions[7]
- Fewer major complications[2]
- Improved cosmesis
- Shorter hospital stay[1,2,7]
- Fast recovery time
- Faster return to normal activities[7]

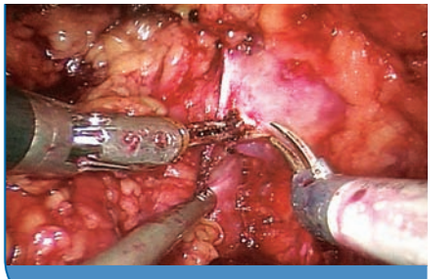
[1]Nix. J., et al., Prospective randomized controlled trial of robotic versus open radical cystectomy for bladder cancer; Perioperative and pathologic results. Eur Uol, 2009. [2]Ng, C.K., et al,. A comparison of postoperative complications in open versus robotic cystectomy. Eur Urol, 2009.[3]Pruthi, R.S. and Wallen, E.M., Robotic assisted laparoscopic radical cystoprostatectomy; Operative and pathological outcomes. J Urol, 2007. [4]Menon, M., et al., Robot-assisted radical cystectomy and urinary diversion in female patients; Technique with preservation of the uterus and vagina. J Am Coll Surg, 2004. 198(3); p. 386-93. [5]Menon, M., et al., Nerve-sparing robot-assisted radical cystoprostatectomy and urinary diversion. BJU Int, 2003. 92(3); p. 232-6. [6]Guru, K.A., et al., Robot-assisted radical cystectomy versus open radical cystectomy; assessment of postoperative pain. Can J Urol, 2007. 14(6); p. 3753-6. [7]Wang, G.J., et al., Robotic vs open radical cystectomy; prospective comparison of perioperative outcomes and pathological measures of early oncological efficacy. BJU Int, 2008. 101(1); p. 89-93.

Procedure **Highlights**



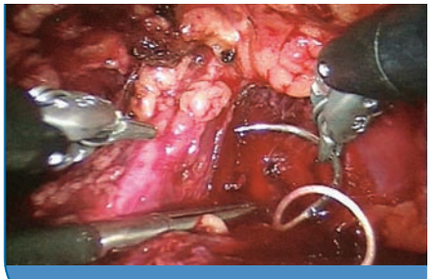
Ureteral Dissection and Isolation

The *da Vinci* System's 3D HD vision and *EndoWrist* instrumentation facilitate accurate identification and dissection of the ureters. Additionally, ligation of the ureters can be precisely carried out with the aid of the *EndoWrist Hem-o-lok*® Large Clip Applier.



Bladder Dissection

The articulation of the *EndoWrist* instruments enables meticulous dissection of posterior, lateral and anterior bladder attachments.

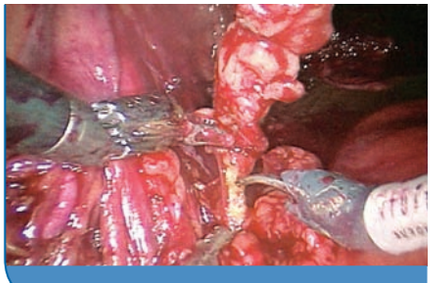


Ligation of the Dorsal Vein Complex (DVC)

Accessing the correct anatomical angles while suture-ligating the DVC can be accurately performed with the aid of the *EndoWrist* Needle Drivers and *da Vinci* 3D HD endoscopic camera.

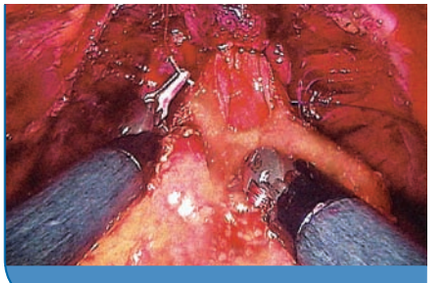
Nerve-Sparing Techniques

The access provided by the *EndoWrist* Maryland Bipolar Forceps and curved scissors allows for a meticulous cautery-free nerve-sparing dissection in select male and female patients.



Lymphadenectomy

The unparalleled dexterity provided by the *EndoWrist* instrumentation facilitates a more precise and comprehensive dissection of lymphatic tissue.



Urethra-Neobladder Anastomosis

Creation of a watertight urethra-neobladder anastomosis can be achieved using the *EndoWrist* Needle Drivers for precise needle and suture placement.

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Interactive Procedure Video

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Full Length Technique Procedure Video

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EndoWrist® Instruments Optimized for *da Vinci* Radical Cystectomy

STANDARD/*S,Si* PNs	TARGETED APPLICATIONS	FEATURES	POTENTIAL BENEFITS
Hot Shears™ (Monopolar Curved Scissors) 400179/420179 Requires Tip Cover: 400180	⁘ Cutting, dissecting and coagulating tissues and pedicles	⁘ Combined scissors and monopolar cautery ⁘ Tapered tip-profile	⁘ Fewer instrument exchanges ⁘ Improves procedure efficiency ⁘ Precise, clean tissue cutting ⁘ Precise, localized hemostasis ⁘ Blunt tissue dissection
Maryland Bipolar Forceps 400172/420172	⁘ Grasping, dissecting and coagulating tissues and pedicles	⁘ Curved, tapered jaw design ⁘ Fenestration at jaw base	⁘ Improves tissue grasping by allowing large overall tissue purchase
Large Needle Driver 400006/420006	⁘ Ligating the dorsal vein complex (DVC) and creating urethra-neobladder anastomosis	⁘ Carbide-insert style jaws ⁘ Diamond pattern jaw profile	⁘ Delivers secure needle control ⁘ Provides firm grip and handling of multiple needle sizes
Hem-o-lok®* **Clip Applier, Large 400230/420230**	⁘ Vessel, ureteral and athermal pedicle ligation	⁘ *EndoWrist* architecture ⁘ Robotically enabled instrument	⁘ Delivers unparalleled range of motion during clip placement ⁘ Provides the console surgeon control of clip placement
Fenestrated Bipolar Forceps 400205/420205	⁘ Grasping, retracting, dissecting and coagulating ⁘ Lymphadenectomy	⁘ Fenestrated wide jaw profile ⁘ Bipolar energy	⁘ Allows for secure grasping and tissue-handling

Additional ***EndoWrist*** Instrument Options

STANDARD/*S,Si* PNs	TARGETED APPLICATIONS
PK™ **Dissecting Forceps 400227/420227** Requires Instrument Cords: 400228 (for PK/SP) 400229 (for G400)	⁘ Grasping, dissecting and coagulating tissues and pedicles
ProGrasp™ **Forceps 400093/420093**	⁘ Grasping and retracting
Cobra Grasper 400190/420190	⁘ Grasping and retracting

STANDARD/*S,Si* PNs	TARGETED APPLICATIONS
Permanent Cautery Hook 400183/420183	⁘ Mobilizing and dissecting tissues
Round Tip Scissors 400007/420007	⁘ Cutting and dissecting tissues and pedicles

***Contraindication (Statement from Teleflex Medical)** "Hem-o-lok ligating clips (REF 544240, Hem-o-lok L) are contraindicated for use in ligating the renal artery during laparoscopic donor nephrectomies."

INTUITIVE SURGICAL®

Taking Surgery Beyond the Limits of the Human Hand.™

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To contact a representative or receive additional information, please call Intuitive Surgical's Customer Service at 1-800-876-1310.

While clinical studies support the use of the *da Vinci* Surgical System as an effective tool for minimally invasive surgery, individual results may vary. Before performing any clinical procedure utilizing the System, physicians are responsible for receiving sufficient training and proctoring to ensure that they have the requisite training, skill, and experience necessary to protect the health and safety of the patient. For technical information, including full cautions and warnings on using the *da Vinci* System, please refer to the System User Manual. Read all instructions carefully. Failure to properly follow instructions, notes, cautions, warnings, and danger messages associated with this equipment may lead to serious injury or complications for the patient. © 2010 Intuitive Surgical. All rights reserved. *Intuitive, Intuitive Surgical, da Vinci, da Vinci S, da Vinci Si, InSite, TilePro* and *EndoWrist* are trademarks or registered trademarks of Intuitive Surgical. All other product names are trademarks or registered trademarks of their respective holders. PN 871753 Rev B 2/10